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**From:** Detlef Knappe [knappe@ncsu.edu]  
**Sent:** 8/8/2017 4:27:33 PM  
**To:** Risen, Amy J [Amy.Risen@dhhs.nc.gov]; Lindstrom, Andrew [Lindstrom.Andrew@epa.gov]  
**CC:** Strynar, Mark [Strynar.Mark@epa.gov]; Biales, Adam [Biales.Adam@epa.gov]  
**Subject:** [SPAM] Re: Request for historic data on concentrations of GenX

I was told by Adam Pickett, the superintendent of the Pittsboro WTP that they began feeding powdered activated carbon (PAC) late last year or early this year. I would expect to help a little with PFOS/PFOA, but not with shorter-chain PFASs, 1,4-dioxane, or bromide, which are all present in their source water (flame retardants, too, but very little data so far).

Happy to talk.

Detlef

On 8/8/17 10:06 AM, Risen, Amy J wrote:

Andy, that is a very good point. We will be looking at historical and present exposures to this community as well.

Detlef, I have been charged with identifying what steps have been taken to mitigate exposures (such as GAC at the WTP). I'll give you a call to ask more about this.

Best,  
Amy

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**From:** Lindstrom, Andrew [mailto:Lindstrom.Andrew@epa.gov]  
**Sent:** Tuesday, August 08, 2017 9:11 AM  
**To:** Risen, Amy J <Amy.Risen@dhhs.nc.gov>; Detlef Knappe <knappe@ncsu.edu>  
**Cc:** Strynar, Mark <Strynar.Mark@epa.gov>; Biales, Adam <Biales.Adam@epa.gov>  
**Subject:** RE: Request for historic data on concentrations of GenX

Amy,

Please recall that the Sun et al. paper documented that the combined PFOS and PFOA health advisory of 70 ng/L was exceeded at the drinking water intake for the City of Pittsboro 47% of the time in 2013. Our unpublished data suggests that this exposure probably continued for many years.

I think Detlef mentioned GAC filtration has been installed at the Pittsboro water plant (right?), but I don't know how it is being maintained or how it might perform for the shorter chain materials or any alternative chemistries.

I'm hoping that this community will also be evaluated at some point.

Thank you very much

Andy

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**From:** Risen, Amy J [mailto:Amy.Risen@dhhs.nc.gov]  
**Sent:** Monday, August 07, 2017 3:11 PM  
**To:** Detlef Knappe <knappe@ncsu.edu>; Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>  
**Subject:** RE: Request for historic data on concentrations of GenX

Thanks Detlef, that is very helpful!

We are squaring away a few items necessary to move forward on this project. In the next week or two, I'll be able to forward this information to a colleague at ATSDR to begin the modeling.

Best,  
Amy

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**From:** Detlef Knappe [mailto:knappe@ncsu.edu]

**Sent:** Saturday, August 05, 2017 6:59 PM

**To:** Risen, Amy J <Amy.Risen@dhhs.nc.gov>; Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>

**Subject:** Re: Request for historic data on concentrations of GenX

Hi Amy,

Attached are the 2013 and 2014 data together with streamflow data. The 2013 data include GenX and the legacy PFASs. The 2014 data set includes the same plus the other PFECAs. I do not know when Chemours processes were running when they were discharging what. All of the 2013 data represent 24-hour composites of Sweeney (CFPUA) raw water, reflecting PFAS levels at the Kings Bluff intake.

We have additional data for the Sweeney plant for May 16-19, 2017 and then for the Pender County plant (same intake location) for 3 weeks starting June 21, 2017. I will share those with you along with stream flow data soon. Some of the Pender samples are still awaiting analysis.

Please let me know if I can answer questions.

Best,  
Detlef

On 8/2/17 8:40 AM, Risen, Amy J wrote:

Andy & Detlef,

We are collecting data for a larger long-term health assessment of the PFASs reported in Sun et al 2016, and I am hoping that you will be able to fill in some data gaps. We are collaborating with other institutions to collect data on 1) potential health impacts and 2) potential exposure concentrations. The data availability will help shape the scope of the project.

At this time, we are assessing the feasibility of modeling concentrations of GenX over time for the past several decades. We'll begin by describing the available data points with concentrations, locations, and dates. We would also welcome accompanying data on river water flow, whether or not Chemours was discharging at the time, and any other relevant information.

Would you please take a quick scan of the information you have and let me know what date ranges you have data for? I understand you may not have a cleaned up list to provide at this time, but I suspect that your teams would have data collected that was not published. If you can provide a summary of available data, we can consider it as a resource.

Other PFECAs were detected as well. I don't want to ignore those, as it would certainly be ideal to characterize their concentrations too. At this time, we are looking at the feasibility of modeling GenX concentrations, and perhaps we can talk about the other PFECAs at a later date.

Thank you so much for any information you can provide!

Best regards,

Amy

**Amy Risen, PhD**

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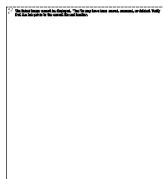
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